

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (previously presented) A method for controlling body fat in an animal, the method comprising the step of:  
reducing lipoxxygenase activity in the animal by an amount sufficient to control body fat in the animal.
2. (previously presented) A method for controlling body fat in an animal, the method comprising the step of:  
administering a lipoxxygenase inhibitor to the animal in an amount sufficient to control body fat in the animal.
3. (original) The method of claim 2, wherein the lipoxxygenase inhibitor is selected from the group consisting of NDGA, AA861, Indomethacin, ETYA, SHA, Baicalein, 3,4-dihydroxycinnamic acid, cinnamyl-3,4-dihydroxy-a-cyanocinnamate, Gossypol, 5,6-dehydro arachidonic acid, Baeomycesic acid, Baicalein monohydrate, 3,4-dihydroxyphenyl ethanol, 4,5-dehydro docosaheaxaenoic acid, eicosatriynoic acid, 5-HETE lactone, 5(S)-HpETE, 12(S)-HpETE, 15(S)-HpETE, 15(S)-HETrE, 9,12-octadecadiynoic acid, a-pentyl-3-(2-quinolinylmethoxy)-benzenemethanol, BHA, BHT, 3-amino-1-/m-(trifluoromethyl)phenyl/-2-pyrazoline, and 6,9-diepox-6,9-phenylimino-delta 6,8-prostaglandin I 1.
4. (original) The method of claim 2, wherein the lipoxxygenase inhibitor is fed to the animal.
5. (original) The method of claim 4, wherein the lipoxxygenase inhibitor is NDGA.
6. (previously presented) The method of claim 5, wherein the NDGA is fed in an amount from about 0.01% to about 5% by weight in diet.

7. (previously presented) The method of claim 5, wherein the NDGA is fed in an amount from about 0.05% to about 1% by weight in diet.

8. (previously presented) The method of claim 5, wherein the NDGA is fed in an amount from about 0.1% to about 0.5% by weight in diet.

9. (original) The method of claim 2, wherein the lipoxxygenase inhibitor is an anti-lipoxxygenase antibody.

10. (previously presented) The method of claim 2, further comprising the step of: administering an agent that comprises *trans*-10, *cis*-12 conjugated linoleic acid (CLA) to the animal.

11. (previously presented) The method of claim 10, wherein the agent is fed to the animal.

12. (previously presented) The method of claim 11, wherein the agent comprises *trans*-10, *cis*-12 CLA in an amount from about 0.01% to about 5% by weight in diet.

13. (previously presented) The method of claim 11, wherein the agent comprises *trans*-10, *cis*-12 CLA in an amount from about 0.05% to about 1% by weight in diet.

14. (previously presented) The method of claim 11, wherein the agent comprises *trans*-10, *cis*-12 CLA in an amount from about 0.1% to about 0.5% by weight in diet.

15-16. (canceled)

17. (original) The method of claim 1, wherein the animal is selected from the group consisting of a mammal, an avian animal and a fish.

18. (original) The method of claim 17, wherein the mammal is selected from a human, a primate, a bovine, a canine, a porcine, an ovine, a caprine, a feline and a rodent.

19. (original) The method of claim 17, wherein the avian animal is selected from a chicken, a duck, a turkey and a quail.

20-47. (canceled)

48. (previously presented) A method for controlling body fat in an animal, the method comprising the step of:

administering a lipoyxygenase inhibitor to the animal in an amount sufficient to control body fat in the animal, wherein the lipoyxygenase inhibitor administered is selected from the group consisting of NDGA, AA861, Indomethacin, ETYA, SHA, Baicalein, 3,4-dihydroxycinnamic acid, cinnamyl-3,4-dihydroxy-a-cyanocinnamate, Gossypol, 5,6-dehydroarachidonic acid, Baeomycesic acid, Baicalein monohydrate, 3,4-dihydroxyphenyl ethanol, 4,5-dehydro docosahexaenoic acid, eicosatriynoic acid, 5-HETE lactone, 5(S)-HpETE, 12(S)-HpETE, 15(S)-HpETE, 15(S)-HETrE, 9,12-octadecadiynoic acid, a-pentyl-3-(2-quinolinylmethoxy)-benzenemethanol, BHA, BHT, 3-amino-1-/m-(trifluoromethyl)phenyl/-2-pyrazoline, and 6,9-diepoxy-6,9-phenylimino-delta 6,8-prostaglandin I 1.

49. (previously presented) A method for controlling body fat in an animal, the method comprising the step of:

feeding NDGA to the animal in an amount sufficient to control body fat in the animal.

50. (previously presented) The method of claim 49, wherein the NDGA is fed in an amount from about 0.01% to about 5% by weight in diet.

51. (previously presented) The method of claim 49, wherein the NDGA is fed in an amount from about 0.05% to about 1% by weight in diet.

52. (previously presented) The method of claim 49, wherein the NDGA is fed in an amount from about 0.1% to about 0.5% by weight in diet.

53. (previously presented) A method for controlling body fat in an animal, the method comprising the step of:

administering an anti-lipoxygenase antibody to the animal in an amount sufficient to control body fat in the animal.